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Northumberland Equatoreal.

1850.	Green. M.T.	R.A.	Log $\frac{p}{P}$	N.P.D.	Log $\frac{q}{P}$	No of Comps.	Star.
	h m s	h m s		° ′ ″			
Nov. 21	11 57 6·1	1 43 21·00	+8·366	81 18 38·7	−9·8457	10	(*a*)
25	10 36 54·1	40 29·11	+8·122	81 5 31·9	−9·8371	4	(*b*)
Dec. 5	10 50 34·5	1 35 12·09	+8·358	80 25 9·2	−9·8392	8	(*c*)

Assumed *Apparent* Places of the Stars.

	R.A.	N.P.D.	Authority.
	h m s	° ′ ″	
(*a*)	1 41 19·77	81 28 9·6	B. (Weisse) i. 743
(*b*)	41 23·09	81 3 32·1	Cambridge Observation.
(*c*)	1 34 43·38	80 30 28·0	— —

"The star (*c*) is Bessel i. 633. The assumed place of each of the stars (*b*) and (*c*) depends on one transit and one circle observation."

Ephemeris. By M. G. Rümker.

For Greenwich Mean Noon.

1850.	App. R.A.	App. Decl.	Log. Dist. from Earth.
	h m s	° ′ ″	
Dec. 8	1 34 25·15	+9 47 11·9	0·23615
9	34 8·45	9 52 7·5	
10	33 53·63	10 57 9·6	
11	33 40·68	2 18·3	
12	33 29·59	7 33·2	0·24578
13	33 20·34	12 54·6	
14	33 12·93	18 22·3	
15	33 7·35	23 56·2	
16	33 3·59	29 36·2	0·25570
17	33 1·62	35 22·3	
18	33 1·45	41 14·3	
19	33 3·05	47 12·2	
20	33 6·41	53 16·0	0·26584
21	33 11·51	10 59 25·6	
22	33 18·34	11 5 40·9	
23	33 26·89	12 1·8	
24	33 37·14	18 28·3	0·27612
25	33 49·09	25 0·3	
26	34 2·72	31 37·6	
27	34 18·02	38 20·3	
28	34 34·97	45 8·4	0·28646
29	34 53·55	52 1·7	
30	35 13·75	11 59 0·1	
31	35 35·55	12 6 3·6	
1851.			
Jan. 1	35 58·93	13 12·1	0·29681
2	36 23·88	20 25·6	
3	36 50·38	27 43·9	

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1851.	App. R.A. h m s	App. Decl. ° ′ ″	Log Dist. from Earth.
Jan. 4	1 37 18·42	+12 35 6·9	
5	37 47·98	42 34·6	0·30711
6	38 19·04	50 6·9	
7	38 51·58	12 57 43·8	
8	39 25·57	13 5 25·0	
9	40 1·00	13 10·5	0·31730
10	40 37·84	21 0·2	
11	41 16·08	28 54·0	
12	41 55·70	36 51·8	
13	42 36·68	44 53·5	0·32734
14	43 18·98	13 52 58·9	
15	44 2·59	14 1 7·9	
16	44 47·49	9 20·4	
17	1 45 33·65	+14 17 36·4	0·33720

For comparing with observation, the time due to aberration must be applied to Greenwich Mean Noon.

An ephemeris by M. Vogel of Berlin, on the *same elements* was very kindly communicated by Dr. Petersen. We give the latter portion of it as a finding ephemeris :—

For 8 p.m. Berlin Mean Time.

1851	R.A. h m s	Decl. ° ′	1851.	R.A. h m s	Decl. ° ′
Jan. 17	1 45 48	+14 20·1	Feb. 4	2 3 6	+16 57·2
18	46 35	28·5	5	4 14	+17 6·3
19	47 24	36·9	6	5 22	15·5
20	48 14	45·3	7	6 32	24·7
21	49 6	+14 53·8	8	7 43	33·9
22	49 59	+15 2·3	9	8 55	43·1
23	50 53	10·0	10	10 8	+17 52·3
24	51 48	19·5	11	11 23	+18 1·5
25	52 44	28·2	12	12 38	10·8
26	53 41	36·9	13	14 53	20·1
27	54 39	45·7	14	15 8	29·4
28	55 38	+15 54·5	15	16 25	38·7
29	56 39	+16 3·4	16	17 43	48·0
30	57 41	12·3	17	19 2	+18 57·3
31	58 44	21·2	18	20 22	+19 6·6
Feb. 1	1 59 48	30·1	19	21 42	15·9
2	2 0 53	39·1	20	23 4	25·2
3	2 1 59	+16 48·1	21	2 24 26	+19 34·5

Log Δ.

Jan. 15	0·3330	Jan. 31	0·3706	Feb. 12	0·3961
19	0·3427	Feb. 4	0·3794	16	0·4040
23	0·3523	8	0·3879	20	0·4116
27	0·3616				

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